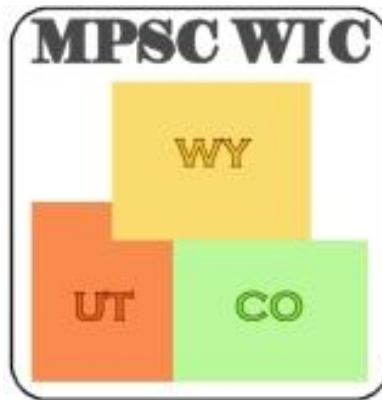

**Mountain Plains States Consortium
WIC System Project**

DDI DELIVERABLE #07

**VENDOR MANAGEMENT INTERFACE WITH
WEB PRICE SURVEY DFDD**

(DETAILED FUNCTIONAL DESIGN DOCUMENT)

Presented to:



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1 Web Price Survey Application Interface

1.1 Summary

This section contains the details of the interface between the WIC system and a price survey web application: Utah Department of Health Vendor Price Management System (VPMS). Further references in this document of the price survey web application will be VPMS. Its primary purpose is to act as a single source of information for both parties to reference concerning the interfacing details.

This document is organized with the following sections:

- **Functionality / Responsibility Matrix** – This section summarizes at a high level the functional steps and who has the responsibility for the steps. A set of assumptions provide more detail.
- **Technical Specifications** – This section describes how the touch points between the two systems occur.
- **Extract and Load File sections** – This section contains the details of the data for each touch point between the two systems.

1.2 Functionality / Responsibility

The following table describes the functionality and responsibilities, in timeline fashion, of conducting a survey while using the interface between the WIC system and VPMS.

Function	Responsibility
A. Installation and Ongoing	
1. Maintain WIC system Vendor Information (WIC Vendor ID)	WIC
2. Maintain VPMS Vendor Information (WIC Vendor ID)	VPMS
3. Maintain VPMS Vendor Groups	VPMS
4. Maintain VPMS Vendor Registration (Users, Pwds and relationship to Vendors Groups / Vendors)	VPMS
B. Establish a new Price Survey	
1. Determine Survey Lists (with Detail Products with preset Product Categories)	WIC
2. Determine Survey (Survey List, Set of Vendors, Type of Survey, Due date)	WIC
3. Extract Survey (Point in time)	WIC
4. Load Survey	VPMS
5. Communicate to Vendors (about presence of survey)	Procedure
6. Print (and distribute) the price survey to vendors	Procedure
C. Gather Price Survey Vendor Pricing (during open time period)	
1. Allow vendors to update prices on survey on the web	VPMS
2. Receive completed surveys and enter prices on survey	WIC

Function	Responsibility
3. Extract Price Survey Updates (Daily)	VPMS
4. Load (overlay) Price Survey Updates	WIC
<i>D. Close and Process Price Survey (close date)</i>	
1. Process Price Survey	WIC
2. Apply Price Survey to Peer Group Pricing	WIC
3. Delete VPMS Price Survey	VPMS
4. Archive Price Survey (maintain historical record)	WIC

1.2.1 Assumptions and Notes

1. Both systems maintain the same WIC Vendor IDs (A1 and A2). WIC System has 5 digit numbers (first two represent county, last three are next sequential number in county). Utah has 5 digit numbers (first two represent county, last three are user entered). Colorado has 4 digit numbers (first two represent county, last two are user entered). Validation between systems does not warrant its own interface; occasional adhoc query would suffice.
2. WIC system supports multiple surveys occurring simultaneously. VPMS can handle only one at a time. This will need to be managed manually.
3. WIC System establishes a survey by (impact to VPMS in parenthesis):
 - a. Associating a list to the survey (vendors can only put in prices for detailed products found on survey)
 - b. Associated which vendors are in survey (only vendors in survey can update the survey)
 - c. Determining type of Most or Least
 - d. Determining due date (this would be the close date for D)
4. WIC system develops an extract job to produce the survey setup file, and the VPMS system develops a load job to load the survey file (B3 & B4).
5. Vendor communication of the survey is coordinated and handled outside the systems. WIC system allows surveys to be printed. State adds a separate page to notify vendors that the Web option is available to them.
 - a. Enhancement is made to WIC system to allow a vendor attribute to be set at the store as to whether that store typically receives a printed survey. If selected when setting up a survey, a checkbox is set to this preference.
6. VPMS develops an extract job to produce the survey prices file, and the WIC system develops a load job to load the prices file (B3 & B4).
7. Although the VPMS supports single entry for a group of stores (A3 & A4), it individually updates each store record and extracts them to the WIC system.
8. VPMS extracts every updated product record that has a price every time.
 - a. WIC system overlays each survey vendor detail product record unless the update date is less than or equal to the update date on the survey price record.

- b. The WIC system Record Survey screen shows for each detail product (in grid) the last modified date and whether it was modified externally or internally.
9. Current VPMS products have a Code ID associated with them. In VPMS system is a semi-intelligent key of the food items used to build food packages. WIC system equivalent is the Food Container but there is no code ID. The Unique Identifier of the Detailed Product allows connectivity back to Food Container. No code ID is needed.

1.3 Technical Details

WIC System

Windows

VB.NET

SQL Server 2005

VPMS

Linux

PHP (Open Source Server Scripting Language)

My SQL (Open Source Database)

Other Notes

Current VPMS extract is a comma-delimited file

Experimenting with XML based communication

1.4 Extract and Load Files

1.4.1 Attributes

How Initiated	Scheduled, Batch
Run Frequency	Daily
Affected Data	None
Staff	State Staff
External Organizations	VPMS
Period Covered	NA
Inputs	WIC system price survey attributes
Outputs	Survey Setup Extract
Prerequisites	Survey must be marked as ready for conducting
Effect on Other Processes	None

1.4.2 Processing Logic Details

The Survey Setup Extract is produced by the WIC system and sent to the VPMS. The Survey Prices Extract is produced by VPMS and loaded into the WIC system.

1.4.3 Data Contents

Survey Setup Extract

Field Name	Comments
Survey Identifier	WIC System: 32 character Unique Identifier (PS_ID):
Vendor Identifier	WIC System: 5 digit number (PrefixNr+FFVendorID) WIC System has 5 digit numbers (first two represent county, last three are next sequential number in county). Utah has 5 digit numbers (first two represent county, last three are user entered). Colorado has 4 digit numbers (first two represent county, last two are user entered).
Detailed Product Identifier	WIC System: 32 character Unique Identifier (DP_ID)
Detailed Product Description	WIC System: 50? Characters (DP_Quantity+PCONContainerSize+DP_Description+DP_UPC)
Detailed Product Category	WIC System: 4 char code (Prod_FoodCategoryCode)
Detailed Product Maximum Price	WIC System: Money (Calculate the maximum price boundary at the time the survey is downloaded to VPMS).
Detailed Product Minimum Price	WIC System: Money (Calculate the minimum price boundary at the time the survey is downloaded to VPMS).

Note: The Detailed Product Maximum Price and Minimum Price are sent in the event that the VPMS wants to invoke some sanity range validation for price data entry.

Survey Prices Extract

Field Name	Comments
Survey Identifier	From WIC System VPMS must maintain this number even though it only supports one survey at a time.
Vendor Identifier	From WIC System
Detailed Product Identifier	From WIC System
Detailed Product Price	VPMS: Float 4.2
Modified Date	VPMS: DateTime